

Attorney Docket No.: DEX-0054
Inventors: Robbins et al.
Serial No.: 09/426,548
Filing Date: October 22, 1999
Page 2

In the Claims:

Please cancel claim 1, without prejudice.

Please amend the claims as follows:

2. (amended) A method of diagnosing hereditary non-polyposis colorectal cancer in a patient comprising:

- (a) obtaining a DNA or RNA sample from a patient; and
- (b) screening the DNA or RNA sample with the oligonucleotide probe of claim 9, wherein binding of the oligonucleotide probe to the DNA or RNA sample is indicative of hereditary non-polyposis colorectal cancer.

3. (amended) A method for predicting susceptibility of a patient to developing hereditary non-polyposis colorectal cancer comprising:

- (a) obtaining a DNA or RNA sample from a patient: and
- (b) screening the DNA or RNA sample with the oligonucleotide probe of claim 9, wherein binding of the oligonucleotide probe to the DNA or RNA sample is indicative of a susceptibility to hereditary non-polyposis colorectal cancer.

Please add the following new claim.

9. An oligonucleotide probe to hMLH1 mutant 1, hMLH1 mutant 2, hMSH2 mutant 1, hMSH2 mutant 2, or hMSH2 mutant 3.